Garcia 10_635696

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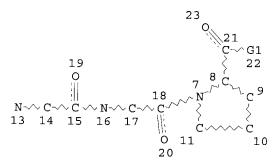
FILE COVERS 1907 - 28 Sep 2004 VOL 141 ISS 14 FILE LAST UPDATED: 27 Sep 2004 (20040927/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> =>

=> d stat que

STR



VAR G1=O/N NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 16

STEREO ATTRIBUTES: NONE

L7 248833 SEA FILE=REGISTRY SSS FUL L3

L11 STR

G2-√ N-√ G2 C-\^G3-\^CH3 CH~ G6 CH\sigma O-\sigma G6 G2~^ C~^ G6 28 @29 30 @31 32 33 @34 35 @36 37 38 39 @40 41

C:----0 0-\(\cdot \ CH2·G7-√ C≡ O CH≡ CH√ C≡ O @48 49 @50 51 @42 43 @44 45 @46 47 @52 53 @54 55

VAR G1=OH/24/NH2/26/29

VAR G2=ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/31

REP G3 = (3-3) C

VAR G4=CH2/34/36/40

VAR G5=CH2/34

VAR G6=OH/ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/31

REP G7 = (0-2) CH2

VAR G8=42/44-5 46-13/48-5 50-13/52-5 54-13/54-5 52-13/50-5 48-13/46-5 44-13

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 55

STEREO ATTRIBUTES: NONE

301 SEA FILE=REGISTRY SUB=L7 SSS FUL L11 L12L17

177 SEA FILE=HCAPLUS ABB=ON PLU=ON L12 L18

10 SEA FILE=HCAPLUS ABB=ON PLU=ON L17 AND (?ALZHE? OR ?NEURO? OR ?COGNIT? OR ?NEURAL? OR ?ISCHE? OR ?LESION? OR ?DEMIN? OR

?SENIL?)

=> d ibib abs hitstr 118 1-10

L18 ANSWER 1 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:353133 HCAPLUS

DOCUMENT NUMBER:

140:357670

TITLE:

=> =>

Preparation of amino acid derivatives for modulating

angiotensin converting enzyme-2 (ACE-2)

INVENTOR(S): Acton, Susan L.; Ocain, Timothy D.; Gould, Alexandra

E.; Dales, Natalie A.; Guan, Bing; Brown, James A.; Patane, Michael; Kadambi, Vivek J.; Solomon, Michael; Stricker-Krongrad, Alain

PATENT ASSIGNEE(S):

SOURCE:

U.S. Pat. Appl. Publ., 358 pp., Cont.-in-part of U.S.

Ser. No. 870,382.

CODEN: USXXCO

DOCUMENT TYPE:

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
US 2004082496 ZA 2001009378 PRIORITY APPLN. INFO.:	A1 A	20040429 20021114	US 2001-999781 ZA 2001-9378 US 1999-132034P US 1999-171052P US 2000-704216 US 2001-870382	A2	20011031 20011114 19990430 19991216 20001101 20010529
			US 2001-371741P	P	20011019

OTHER SOURCE(S): MARPAT 140:357670

ACE-2 modulating compds. Z-A-B-E (Z is a zinc coordinating moiety; E is an enzyme coordinating moiety; A is an auxiliary pocket binding moiety; B is a side chain binding moiety) were prepared for the treatment of body weight disorders. Thus, N-[(S)- or (R)-1-carboxy-3-phenylpropyl]-L-leucine was prepared by the solid-phase method and showed ACE-2 inhibitory activity.

IT 305336-84-9

RL: PAC (Pharmacological activity); BIOL (Biological study) (preparation of amino acid derivs. for modulating angiotensin converting enzyme-2 (ACE-2))

RN 305336-84-9 HCAPLUS

L-Proline, N-(3-aminobenzoyl)glycyl-4-nitro-L-phenylalanyl- (9CI) CN INDEX NAME)

Absolute stereochemistry.

L18 ANSWER 2 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2002:609522 HCAPLUS

DOCUMENT NUMBER:

137:163818

TITLE:

Tripeptide derivatives for the treatment of post-

lesional diseases of the nervous system

INVENTOR (S):

Rapin, Jean; Witzmann, Hans Klaus; Grumel, Jean-Marie;

Gonella, Jacques

PATENT ASSIGNEE(S):

Tell-Pharm AG, Switz.

SOURCE:

Ger. Offen., 4 pp.

CODEN: GWXXBX

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

ATTEM THEODMANTON

PATENT INFORMATION:

PATENT	NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002	062372 062372	A3	20020815 20040108		20020205
	AE, AG, AL, CO, CR, CU, GM, HR, HU, LS, LT, LU, PL, PT, RO,	AM, AT CZ, DE ID, IL LV, MA RU, SD	, AU, AZ, , DK, DM, , IN, IS, , MD, MG, , SE, SG,	BA, BB, BG, BR, BY, DZ, EC, EE, ES, FI, JP, KE, KG, KP, KR, MK, MN, MW, MX, MZ, SI, SK, SL, TJ, TM, ZM, ZW, AM, AZ, BY,	GB, GD, GE, GH, KZ, LC, LK, LR, NO, NZ, OM, PH, TN TP TT TZ
EP 13900	BF, BJ, CF, 055	CG, CI,	FR, GB, CM, GA, 20040225	SL, SZ, TZ, UG, ZM, GR, IE, IT, LU, MC, GN, GQ, GW, ML, MR, EP 2002-704686	NL, PT, SE, TR, NE, SN, TD, TG
R:	IE, SI, LT, 526701	DE, DK, LV, FI,	ES, FR, RO, MK,	GB, GR, IT, LI, LU.	NL, SE, MC, PT,
OTHER SOURCE	(S):	MARPAT	137:16381	WO 2002-EP1182	

The invention discloses the use of cinnamoyl tripeptide derivs. for the treatment of post-lesional neuronal diseases. The cinnamoyl tripeptide derivs. are I [X = OH, C1-5 alkoxy, NH2, NH(C1-5 alkyl), N(C1-5 alkyl)2; R = (preferably) cinnamoyl; R1 = group derived from Phe, Tyr, Trp, Pro, Ala, Val, Leu or Ile; R2 = group derived from Gly, Ala, Ile, Val, Ser, Thr, His, Arg, Lys, Pro, Glu, Gln, pGlu, Asp and Asn; R3, R4 = H, OH, C1-5 alkyl, C1-5 alkoxy, provided that R3 and R4 are not both OH or C1-5 alkoxy; R5 = H, OH, C1-5 alkyl, C1-5 alkoxy], or a pharmaceutical acceptable salt thereof.

IT 123910-57-6

RL: PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(tripeptide derivs. for treatment of post-lesional nervous system diseases)

RN 123910-57-6 HCAPLUS

CN L-Prolinamide, N-(1-oxo-3-phenyl-2-propenyl)glycyl-L-phenylalanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

REFERENCE COUNT:

1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 3 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2002:591566 HCAPLUS

DOCUMENT NUMBER: TITLE:

137:135103 Tripeptide derivatives for treatment of

neurodegenerative diseases

INVENTOR(S):

Rapin, Jean; Witzmann, Hans Klaus; Grumel, Jean-Marie;

Gonella, Jacques

PATENT ASSIGNEE(S):

Tell-Pharm A.-G., Switz.

SOURCE:

Ger. Offen., 10 pp.

CODEN: GWXXBX

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA 	TENT	NO.			KIN	D -	DATE				LICAT				D	ATE	
DE WO	1010 2002 W:	AE, CO, GM, LS, PL,	AG, CR, HR, LT, PT, UG,	AL, CU, HU, LU, RO,	A1 AM, CZ, ID, LV, RU,	AT, DE, IL, MA, SD,	AU, DK, IN, MD, SE,	0815 AZ, DM, IS, MG, SG,	BA, DZ, JP, MK, SI,	DE 2 WO 2 BB, EC, KE, MN,	BG, EE, KG, MW, SL, AM,	1010 EP11 BR, ES, KP, MX,	5039 81 BY, FI, KR, MZ,	BZ, GB, KZ, NO,	CA, GD, LC, NZ,	OO202 CH, GE, LK, OM,	CN, GH, LR, PH,
EP PRIORIT	1358: R:	GH, CY, BF, 204 AT, IE,	GM, DE, BJ, BE, SI,	CF, CH, LT,	CG, Al DE,	CI,	FR, CM, 2003]	GB, GA, L105 FR,	GR, GN, I GB, CY,	IE, GQ, EP 2 GR, AL, DE 2	001-1	LU, ML, 71672 LI,	MC, MR, 27 LU,	NL, NE, NL,	PT, SN, 20 SE,	SE, TD, 00202 MC,	TR, TG 205 PT,
OTHER SO	DURCE	(S) :			MARP	'AT	137:1	3510	V	VO 2	002-E	EP118	31	W	20	0202	.05

The invention discloses the use of tripeptide derivs. for treatment of neurodegenerative diseases. The tripeptide derivs are I [X = OH, C1-5 alkoxy, NH2, NH(C1-5 alkyl), N(C1-5 alkyl)2; R = (preferably) cinnamoyl; R1 = group derived from Phe, Tyr, Trp, Pro, Ala, Val, Leu or Ile; R2 = group derived from Gly, Ala, Ile, Val, Ser, Thr, His, Arg, Lys, Pro, Glu, Gln, pGlu, Asp or Asn; R3, R4 = H, OH, C1-5 alkyl, C1-5 alkoxy, provided that R3 and R4 are not both OH or C1-5 alkoxy; R5 = H, OH, C1-5 alkyl, C1-5 alkoxy], or a pharmaceutically compatible salt. Cinnamoyl-Gly-L-Phe-L-Pro-NH2 was tested in an Alzheimer's disease model.

IT 123910-57-6

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(tripeptide derivs. for treatment of neurodegenerative diseases)

RN 123910-57-6 HCAPLUS

CN L-Prolinamide, N-(1-oxo-3-phenyl-2-propenyl)glycyl-L-phenylalanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

L18 ANSWER 4 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2002:391512 HCAPLUS

DOCUMENT NUMBER:

136:402027

TITLE:

Preparation of amino acid derivatives for modulating

angiotensin converting enzyme-2 (ACE-2)

INVENTOR(S):

Acton, Susan L.; Ocain, Timothy D.; Gould, Alexandra E.; Dales, Natalie A.; Guan, Bing; Brown, James A.; Patane, Michael; Kadambi, Vivek J.; Solomon, Michael;

Stricker-Krongrad, Alain

PATENT ASSIGNEE(S):

Millennium Pharmaceuticals, Inc., USA

SOURCE:

PCT Int. Appl., 395 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE ~ - - ------WO 2002039997 A2 20020523 WO 2001-US45703 20011031 WO 2002039997 Α3 20021128 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG AU 2002039454 Α5 20020527 AU 2002-39454 20011031 PRIORITY APPLN. INFO.: US 2000-704216 A 20001101 US 2001-870382 A 20010529 US 2001-371741P Ρ 20011019

OTHER SOURCE(S):

AB ACE-2 modulating compds. Z-A-B-E (Z is a zinc coordinating moiety; E is an enzyme coordinating moiety; A is an auxiliary pocket binding moiety; B is a side chain binding moiety) were prepared for the treatment of body weight disorders. Thus, N-[(S)- or (R)-1-carboxy-3-phenylpropyl]-L-leucine was prepared by the solid-phase method and showed ACE-2 inhibitory activity.

IT 305336-84-9

MARPAT 136:402027

RL: PAC (Pharmacological activity); BIOL (Biological study) (preparation of amino acid derivs. for modulating angiotensin converting enzyme-2 (ACE-2))

WO 2001-US45703

W 20011031

RN 305336-84-9 HCAPLUS

CN L-Proline, N-(3-aminobenzoyl)glycyl-4-nitro-L-phenylalanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L18 ANSWER 5 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2002:23216 HCAPLUS

DOCUMENT NUMBER:

136:275463

TITLE:

Biodistribution and catabolism of 18F-labeled

neurotensin(8-13) analogs

AUTHOR(S): Bergmann, Ralf; Scheunemann, Matthias; Heichert,

Christoph; Mading, Peter; Wittrisch, Holm;

Kretzschmar, Marion; Rodig, Heike; Tourwe, Dirk;

Garcia 10_635696

Iterbeke, Koen; Chavatte, Kris; Zips, Daniel; Reubi,

Jean Claude; Johannsen, Bernd

CORPORATE SOURCE: Institut fuer Bioanorganische und Radiopharmazeutische

Chemie, Forschungszentrum Rossendorf, Germany Nuclear Medicine and Biology (2002), 29(1), 61-72

CODEN: NMBIEO; ISSN: 0969-8051

Elsevier Science Inc.

DOCUMENT TYPE:

SOURCE:

PUBLISHER:

Journal

LANGUAGE: English

4-([18F]fluoro)benzoyl-neurotensin(8-13) (18FB-Arg8-Arg9-Pro10-AB Tyr11- Ile12-Leu13-OH, 1) and two analogs stabilized in one and two positions (18FB-Arg8 ψ (CH2NH)Arg9-Pro10-Tyr11- Ile12-Leu13-OH, 2, 18FB-Arg8ψ(CH2NH)Arg9-Pro10-Tyr11-Tle12-Leu13-OH, 3) were synthesized in a radiochem. yield of 25-36% and a specific activity of 5-15 GBq/mmol. The peptides were evaluated in vitro and in vivo for their potential to image tumors overexpressing neurotensin receptor 1 (NTR1) by positron emission tomog. (PET). All analogs exhibited in vitro binding affinity in the low nanomolar range to NTR1-expressing human tumors, measured by quant. receptor autoradiog., HT-29 and WiDr cells, and to sections of tumors derived from these cell lines in mice. The radiotracers were internalized in the cells in vitro, and the fluorinated peptides were able to mobilize intracellular Ca2+ of WiDr cells. In in vivo studies in rats and in mice bearing HT-29 cell tumors, only a moderate uptake of the radioligands into the studied tumors was observed, presumingly due to degradation in vivo and fast elimination by the kidneys. In comparison with the other analogs, the specific tumor uptake expressed as tumor-to-muscle relation was highest for the radioligand 3. The blood clearance of 3 was reduced by co-injection of peptidase inhibitors. catabolic pathways of the radiofluorinated peptides were elucidated. results suggest that the high binding affinity to NTR1 and the stabilization against proteolytic degradation are not yet sufficient for tumor imaging by PET.

IT406486-51-9

> RL: PKT (Pharmacokinetics); BIOL (Biological study) (metabolite; biodistribution and catabolism of 18F-labeled neurotensin(8-13) analogs in relation to their potential to image tumors overexpressing neurotensin receptor 1 by PET)

RN 406486-51-9 HCAPLUS CN

L-Proline, N2-[4-(fluoro-18F)benzoyl]-L-arginyl-L-arginyl- (9CI) INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT:

THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS 51 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 6 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:338068 HCAPLUS

DOCUMENT NUMBER: 134:348237

Garcia 10 635696

TITLE: Treatment of female sexual arousal dysfunction INVENTOR (S): Maw, Graham Nigel; Wayman, Christopher Peter PATENT ASSIGNEE(S): Pfizer Limited, UK; Pfizer Inc. Eur. Pat. Appl., 135 pp. CODEN: EPXXDW DOCUMENT TYPE: Patent LANGUAGE: English FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. KIND APPLICATION NO. DATE DATE ------------**-**---EP 1097707 **A**1 20010509 EP 2000-309719 20001103 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO ZA 2000006374 Α 20020506 ZA 2000-6374 20001106 ZA 2000006375 Α 20020506 ZA 2000-6375 20001106 ZA 2000-6375
ZA 2000-6376
ZA 2000-6378
NO 2000-5618
NO 2000-5661
NO 2000-5662
CN 2000-137669 ZA 2000006376 Α 20020506 20001106 ZA 2000006378 Α 20020506 20001106 NO 2000005618 Α 20010509 20001107 NO 2000005661 Α 20010509 NO 2000-5661 20001107 NO 2000005662 Α 20010509 20001107 CN 1320426 Α 20011107 CN 2000-137665 20001107 CN 1322526 A 0011 0020102 20020628 NZ 2000 20020628 NZ 2000-5060 20020628 NZ 2000-508012 20030408 BR 2000-5266 20010731 JP 2000-339905 20010807 JP 2000-339853 1010911 JP 2000-339949 11 JP 2000-339957 BR 2000-5276 1000-5299 118392 20011121 CN 2000-137671 20001107 CN 1328824 Α 20001107 NZ 508006 Α 20001107 NZ 508007 Α 20001107 NZ 508011 Α 20001107 NZ 508012 Α 20001107 A A2 BR 2000005266 20001107 JP 2001206855 20001108 A2 JP 2001213802 20001108 A2 JP 2001247478 20001108 JP 2001247479 A2 20001108 A a BR 2000005276 20001108 BR 2000005299 Α 20001108 B1 US 6734186 20001108 A 19991108 A 20000218 20001108 PRIORITY APPLN. INFO.: GB 1999-26437 GB 2000-4021 GB 2000-13001 A 20000526 GB 2000-16563 GB 2000-17141 A 20000705 A 20000712 US 2000-175161P P 20000107 US 2000-192962P P 20000329 US 2000-217479P P 20000711 US 2000-221014P P 20000727 US 2000-221093P P 20000727 A method of treating a female suffering from female sexual dysfunction (FSD), in particular female sexual arousal dysfunction (FSAD), is described. The method comprises delivering to the female an agent that is capable of potentiating cAMP in the sexual genitalia; wherein the agent is in an amount to cause potentiation of cAMP in the sexual genitalia of the female. The agent may be admixed with a pharmaceutically acceptable carrier, diluent or excipient. TΤ 67482-93-3 RL: ARU (Analytical role, unclassified); BPR (Biological process); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study); PROC (Process) (treatment of female sexual arousal dysfunction)

Page 9

L-Proline, N-(2-aminobenzoyl)glycyl-4-nitro-L-phenylalanyl- (9CI)

RN

CN

67482-93-3 HCAPLUS

INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT:

THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 7 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2000:790293 HCAPLUS

DOCUMENT NUMBER:

133:344615

TITLE:

ACE-2 inhibiting compounds, their preparation,

pharmaceutical compositions containing them, and their

therapeutic use

INVENTOR(S):

Acton, Susan L.; Ocain, Timothy D.; Gould, Alexandra E.; Dales, Natalie A.; Guan, Bing; Brown, James A.

PATENT ASSIGNEE(S): Millennium Pharmaceuticals, Inc., USA

SOURCE:

PCT Int. Appl., 127 pp.

DOCUMENT TYPE:

CODEN: PIXXD2 Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT	NO.	KIND	DATE	APPLICATION NO.	
WO 2000	0066104	A3	20010628	WO 2000-US11550	
W:	CU, CZ, DE, ID, IL, IN, LV, MA, MD, SG, SI, SK, AM, AZ, BY,	AM, AT DK, DM IS, JP MG, MK SL, TJ KG, KZ	7, AU, AZ, 1, DZ, EE, 2, KE, KG, 3, MN, MW, 4, TM, TR, 4, MD, RU,	BA, BB, BG, BR, BY, CA, ES, FI, GB, GD, GE, GH, KP, KR, KZ, LC, LK, LR, MX, NO, NZ, PL, PT, RO, TT, TZ, UA, UG, UZ, VN, TJ, TM SZ, TZ, UG, ZW, AT, BE,	GM, HR, HU, LS, LT, LU, RU, SD, SE, YU, ZA, ZW,
201.	DK, ES, FI,	FR, GB	, GR, IE,	IT, LU, MC, NL, PT, SE, MR, NE, SN, TD, TG	CH, CY, DE, BF, BJ, CF,
EP 1183	019	A2	20020306	EP 2000-926478	20000428
R:	AT, BE, CH, IE, SI, LT,	DE, DK LV, FI	, ES, FR, , RO	GB, GR, IT, LI, LU, NL,	SE, MC, PT,
TR 2001	03094	T2	20020321	TR 2001-200103094	
JP 2002 US 6632 NO 2001	830 005274 009378	T2 B1 A	20021217 20031014 20011228	BR 2000-10166 JP 2000-614989 US 2000-561759 NO 2001-5274 ZA 2001-9378 US 1999-132034P	20000428 20000428 20011029 20011114 2 19990430
				US 1999-171052P	9 19991216

WO 2000-US11550 W 20000428

OTHER SOURCE(S): MARPAT 133:344615

AB ACE-2 inhibiting compds. are disclosed. Methods of using the compds. and pharmaceutical compns. containing the compds. are also claimed. The compds. of the invention are useful for treating e.g. blood pressure-related diseases. Compound preparation is described.

IT 305336-84-9

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(ACE-2 inhibitor preparation, pharmaceutical compns., and therapeutic use)

RN 305336-84-9 HCAPLUS

CN L-Proline, N-(3-aminobenzoyl)glycyl-4-nitro-L-phenylalanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L18 ANSWER 8 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

CORPORATE SOURCE:

1999:124017 HCAPLUS

DOCUMENT NUMBER:

130:322240

TITLE:

N-domain selectivity of angiotensin I-converting enzyme as assessed by structure-function studies of

its highly selective substrate, N-acetyl-seryl-

aspartyl-lysyl-proline

AUTHOR(S):

Michaud, Annie; Chauvet, Marie-Therese; Corvol, Pierre

Institut National de la Sante et de la Recherche

Medicale, Unite 36, College de France, Paris, 75005,

Fr.

SOURCE:

Biochemical Pharmacology (1999), 57(6), 611-618

CODEN: BCPCA6; ISSN: 0006-2952

PUBLISHER:

Elsevier Science Inc.

DOCUMENT TYPE:

Journal

LANGUAGE:

English

The physiol. functions of angiotensin I-converting enzyme (ACE) are not limited to its cardiovascular role. ACE constantly degrades N-acetyl-seryl-aspartyl-lysyl-proline (AcSDKP), a natural circulating regulator of the hematopoietic stem cell proliferation, and thereby may be involved in hematopoietic stem cell regulation. AcSDKP is hydrolyzed 50-fold faster by the N-domain active site compared to the C-domain active site. The aim of the present study was to investigate which amino acid residues from AcSDKP are required to ensure N-domain specificity. Several peptides were designed by progressively increasing the length of the peptidic chain from a tripeptide to a pentapeptide. Kinetic studies of the wild-type ACE and of the two ACE mutants containing a single active domain (N- or C-domain) were performed using Bz (benzoyl) Asp-Lys-Pro, benzoyl-glycyl (Bz-Gly)-Asp-Lys-Pro, and Bz-Gly-Ser-Asp-Lys-Pro (with its intermediate product Bz-Gly-Ser-Asp) as substrates. The unexpected

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importance of an aspartic acid in the P1 position was discovered, as well as the interaction of the P2 and P3 positions in the substrate to increase or decrease N-domain specificity. Substrates longer than five residues may involve interdependence between subsites. Finally, the discovery of highly specific and novel N-domain substrates cannot be predicted from single subsite mapping, but may require other approaches such as combinatorial peptide libraries.

IT 223779-90-6

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(N-domain selectivity of angiotensin I-converting enzyme as assessed by structure-function studies of its highly selective substrate,

N-acetyl-seryl-aspartyl-lysyl-proline)

RN 223779-90-6 HCAPLUS

CN L-Proline, N-benzoyl-L-lpha-aspartyl-L-lysyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT:

THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 9 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1990:16254 HCAPLUS

DOCUMENT NUMBER:

112:16254

TITLE:

Targeted delivery of drugs and diagnostic agents using

carriers which promote endothelial and epithelial uptake and **lesional** localization

INVENTOR(S): Ranney, David F.

PATENT ASSIGNEE(S):

USA

SOURCE:

PCT Int. Appl., 99 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA'	TENT NO.	- -		KIN	D -	DATE			APPL	ICAT	ION	NO.		D.	ATE	
	8807365 8807365			A2 A3		1988 1988			WO 1	988-	US10	96		1	9880	330
	W: AT, MC,	MG,	MW,	NL,	NO,	RO,	SD,	SE,	SU,	US						
	RW: AT, SE,	BE, SN,	BJ, TD,	CF, TG	CG,	CH,	CM,	DE,	FR,	GA,	GB,	IT,	LU,	ML,	MR,	NL,
US	4925678			Α		1990	0515	τ	JS 1:	987-	3343	2		1 0	98704	401
ΑU	8816275			A1		1988	1102	7	AU 19	988-	1627	- 5			98803	
ΑU	607494			B2		1991	0307				, .			4.	/000.	,,,,

Garcia 10_635696

	352295		A1	19900131	EP 1988-903702	19880330
EP	352295		B1	19930616		19000330
EP	352295		B2	19960410		
	R: AT, BE	, CH,	DE,	FR, GB, IT,	LI, LU, NL, SE	
JP	04504404		T2	19920806	JP 1988-503579	19880330
JP	2886171		B2	19990426	01 100 0000/0	19880330
AT	90554		E	19930715	AT 1988-903702	19880330
CA	1324080		A1	19931109	CA 1988-565119	
US	5108759		Α	19920428		19880426
PRIORITY		^ .	-	13320428	US 1989-448121	19891208
TRIORITI	APPLIN. INF	U.:			US 1987-33432	19870401
					EP 1988-903702	19880330
					WO 1988-US1096	19880330

Targeted delivery systems comprise drugs or diagnostic agents and carriers AΒ which recognize determinants present on normal or diseased endothelium. This induces the following effects in vivo: (1) rapid endothelial envelopment of the carrier; (2) sequestration of the carrier and protection of the entrapped agent from early blood clearance; (3) acceleration of the carrier's transport across the vascular endothelium into the interstitium; and (4) improvement of drug delivery across the endothelium, so that a lower total drug dose is required. Aqueous cisplatin (I) was mixed with heparin at a 1:1.1 weight ratio and ultrasonicated to form a heparin-coated I microemulsion with particle sizes of 0.2-1.5 μm , which was stable for >1 h at 22°. Mice receiving this emulsion i.v. showed moderate to intense concentration of I in the lung interstitia, alveolar pneumocytes, respiratory epithelia, and lymph nodes, but low I concns. in the liver, whereas mice receiving standard aqueous I showed intense I concentration in the liver and almost no I $\bar{\text{in}}$ the lungs. Thus high concns. of I (which are usually toxic to endothelium) can be successfully reformulated as a heparin microemulsion, and the heparin component can induce endothelial binding and transcellular uptake of the complexes in a fashion that protects the endothelium from the toxic effects of the drug. IT 69677-91-4

RL: BIOL (Biological study)

(as multivalent binding agent, for targeted drug delivery to epithelium)

69677-91-4 HCAPLUS RN

L-Proline, N-benzoyl-L-phenylalanyl-L-alanyl- (9CI) (CA INDEX NAME) CN

Absolute stereochemistry.

L18 ANSWER 10 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN ACCESSION NUMBER:

DOCUMENT NUMBER:

111:233680

TITLE:

Preparation of tripeptides containing L-proline derivatives as nootropics and pharmaceutical

compositions containing them

INVENTOR (S):

Fiez-Vandal, Pierre Yves

1989:633680 HCAPLUS

Garcia 10 635696

PATENT ASSIGNEE(S):

SOURCE:

Inorgan S. A., Switz. Eur. Pat. Appl., 18 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

French

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 316218 EP 316218	A1 B1	19890517 19930915	EP 1988-402761	19881103
R: AT, BE, CH, FR 2622581	DE, ES A1	, FR, GB, GR	R, IT, LI, LU, NL, SE	
FR 2622581	B1	19900216	FR 1987-15228	19871103
JP 01157998 FI 8805083	A2 A	19890621 19890504	JP 1988-276343 FI 1988-5083	19881102 19881103
US 5212158 AT 94560	A E	19930518	US 1988-266680	19881103
ES 2061710	T3	19931015 19941216	AT 1988-402761 ES 1988-402761	19881103 19881103
KR 121793 CA 1340227	B1 A1	19971127 19981215	KR 1988-14433 CA 1988-582169	19881103
PRIORITY APPLN. INFO.:		19901115	FR 1987-15228	19881103 A 19871103
OTHER SOURCE(S):	CASREA	CT 111:23368	EP 1988-402761 0; MARPAT 111:233680	A 19881103

The title compds. [I; R1 = Q; X = CO, YCO, OYCO; Y = alkylene, alkenylene; AΒ Z = H, ≥ 1 CF3, alkyl, alkylenedioxy; R2 = NH2, OH, or a functional derivative thereof; A1, A2 = amino acid residue; B1, B2 = H, Me] and their pharmaceutically acceptable salts, useful as nootropics for treatment of senile dementia, Alzheimer's disease, Parkinson's disease, schizophrenia, and depression, are prepared via reaction of activated R1-A1-OH with proline derivs. II (R3 = H-A2), obtained by reaction of II (R3 = H) with activated H-A2-OH. N-Cinnamoylglycine (preparation given) was condensed with II.CF3CO2H (R2 = NH2, B1 = B2 = H, R3 = H-Phe) (preparation given) in DMF containing dicyclohexylcarbodiimide and N-methylmorpholine to give I (R1 = cinnamoyl, R2 = NH2, B1 = B2 = H, A1 = Gly, $\widehat{A2} = \widehat{Phe}$) (III). III, administered i.p. or p.o. at 1 mg/kg, was effective in antagonizing scopolamine-induced amnesia in mice. IT

ΙI

123910-50-9P 123910-52-1P 123910-53-2P 123910-54-3P 123910-55-4P 123910-57-6P 123910-58-7P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, as nootropic)

123910-50-9 HCAPLUS RN

CN L-Prolinamide, N-[3-(4-fluorophenyl)-1-oxo-2-propenyl]glycyl-Lphenylalanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry unknown.

RN 123910-52-1 HCAPLUS

CN L-Prolinamide, N-[1-oxo-3-(3,4,5-trimethoxyphenyl)-2-propenyl]glycyl-L-phenylalanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry unknown.

RN 123910-53-2 HCAPLUS

CN L-Prolinamide, N-(1-oxo-3-phenyl-2-propenyl)glycyl-L-leucyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry unknown.

RN 123910-54-3 HCAPLUS

CN L-Prolinamide, N-benzoylglycyl-L-phenylalanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 123910-55-4 HCAPLUS

CN L-Prolinamide, N-(phenylacetyl)glycyl-L-phenylalanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 123910-57-6 HCAPLUS

CN L-Prolinamide, N-(1-oxo-3-phenyl-2-propenyl)glycyl-L-phenylalanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry unknown.

RN 123910-58-7 HCAPLUS

CN L-Prolinamide, N-[3-(1,3-benzodioxol-5-yl)-1-oxo-2-propenyl]glycyl-L-phenylalanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

=> [=> d stat que nos L3STR L7248833 SEA FILE=REGISTRY SSS FUL L3 L11 STR L12301 SEA FILE=REGISTRY SUB=L7 SSS FUL L11 L17 177 SEA FILE=HCAPLUS ABB=ON PLU=ON L1210 SEA FILE=HCAPLUS ABB=ON L18 PLU=ON L17 AND (?ALZHE? OR ?NEURO? OR ?COGNIT? OR ?NEURAL? OR ?ISCHE? OR ?LESION? OR ?DEMIN? OR ?SENIL?) L19 112997 SEA FILE=HCAPLUS ABB=ON PLU=ON "NERVOUS SYSTEM, DISEASE"/CV OR ("BRAIN, DISEASE"/CV OR "MENTAL DISORDER"/CV OR "ALZHEIMER'S DISEASE"/CV OR "MENTAL DISORDER (L) ALZHEIMER'S DISEASE"/CV OR "ALZHEIMER DEMENTIA"/CV OR "ALZHEIMER DISEASE MENTAL DISORDER"/CV OR "ALZHEIMER'S DEMENTIA"/CV OR "ALZHEIMER'S DISEASE MENTAL DISORDER"/CV OR "ALZHEIMER'S SENILE DEMENTIA"/CV OR "ALZHEIMER-TYPE SENILE DEMENTIA"/CV OR "NONFAMILIAL ALZHEIMER'S DISEASE"/CV OR "PRESENILE ALZHEIMER'S DISEASE"/CV OR "PRESENILE ALZHEIMER-TYPE DEMENTIA"/CV OR "PRESENILE DEMENTIA"/CV OR "MENTAL DISORDER (L) ALZHEIMER'S DISEASE, LEWY-BODY VARIANT"/CV OR "MENTAL DISORDER (L) ALZHEIMER'S DISEASE, FAMILIAL"/CV OR "MENTAL DISORDER (L) ALZHEIMER'S DISEASE, FAMILIAL, TYPE 3"/CV OR "MENTAL DISORDER (L) ALZHEIMER 'S DISEASE, TYPE I"/CV OR "MENTAL DISORDER (L) ALZHEIMER'S DISEASE, TYPE II"/CV OR "AGING, ANIMAL"/CV OR "AMYLOID PRECURSOR PROTEINS"/CV OR AMYLOIDOSIS/CV OR "ANTI-ALZHEIMER'S AGENTS"/CV OR "COGNITION ENHANCERS"/CV OR "NEUROFIBRILLARY TANGLE"/CV OR PRESENILINS/CV OR "TAU FACTOR"/CV OR B-SECRE TASE/CV OR Γ-SECRETASE/CV OR "CDK5 KINASE"/CV OR "GLYCOGEN SYNTHASE KINASE 3"/CV OR "HUMAN B-AMYLOID PEPTIDE-(1-40)"/CV OR "HUMAN B-AMYLOID PEPTIDE-(1-42)"/CV OR TACRINE/CV) L20 4 SEA FILE=HCAPLUS ABB=ON PLU=ON L19 AND L17 L21 76835 SEA FILE=HCAPLUS ABB=ON PLU=ON ("BLOOD VESSEL, DISEASE"/CV OR ISCHEMIA/CV OR "BLOOD VESSEL, DISEASE (L) ISCHEMIA"/CV OR "ISCHEMIA CARDIOVASCULAR SYSTEM"/CV OR "ANTI-ISCHEMIC AGENTS"/C V OR CIRCULATION/CV OR "ISCHEMIC PRECONDITIONING"/CV OR REPERFUSION/CV OR "ISCHEMIA CARDIOVASCULAR SYSTEM"/CV OR ISCHEMIA/CV) L22 11 SEA FILE=HCAPLUS ABB=ON PLU=ON L21 AND L17 L23 10404 SEA FILE=HCAPLUS ABB=ON PLU=ON "NERVOUS SYSTEM, DISEASE"/CV L242 SEA FILE=HCAPLUS ABB=ON PLU=ON L23 AND L17 L25 15 SEA FILE=HCAPLUS ABB=ON PLU=ON L20 OR L22 OR L24 L26 10 SEA FILE=HCAPLUS ABB=ON PLU=ON L25 NOT L18 L27 5 SEA FILE=HCAPLUS ABB=ON PLU=ON L17(L)(?MEDIC? OR ?DRUG? OR ?PHARM? OR ?THERAP?) L28 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L27 NOT L18 L29 12 SEA FILE=HCAPLUS ABB=ON PLU=ON L26 OR L28

=>

=> d ibib abs hitstr 129 1-12

L29 ANSWER 1 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2002:354079 HCAPLUS

DOCUMENT NUMBER:

INVENTOR (S):

136:355487

TITLE:

Preparation of meta-benzamidine derivatives of amino acids or dipeptides as serine protease inhibitors Liebeschuetz, John Walter; Wylie, William Alexander; Waszkowycz, Bohdan; Murray, Christopher William; Rimmer, Andrew David; Welsh, Pauline Mary; Jones, Stuart Donald; Roscoe, Jonathan Michael Ernest; Young,

Stephen Clinton; Morgan, Phillip John

PATENT ASSIGNEE(S):

Tularik Ltd., UK

SOURCE:

U.S. Pat. Appl. Publ., 35 pp., Cont.-in-part of U.S. Ser. No. 485,678.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 13

PATENT INFORMATION:

PATENT NO.	_	DATE	APPLICATION NO.	DATE
		20020509	US 2001-988082	20011119
US 6740682		20040525	05 2001 300082	20011119
WO 9911658			WO 1998-GB2605	1000000
W: AL, AM, AT,			G, BR, BY, CA, CH,	19980828
DK, EE, ES,	FI, GB.	GE, GH, G	M, HR, HU, ID, IL,	IC ID VE VO
KP, KR, KZ,	LC, LK,	LR, LS, L'	T, LU, LV, MD, MG,	MK MM MM MV
NO, NZ, PL,	PT, RO,	RU, SD, SI	E, SG, SI, SK, SL,	TJ, TM, TR, TT,
UA, UG, US,	UZ, VN,	YU, ZW, AI	M, AZ, BY, KG, KZ,	MD, RU, TJ, TM
RW: GH, GM, KE,	LS, MW,	SD, SZ, U	G, ZW, AT, BE, CH,	CY DE DK ES
F1, FR, GB,	GR, IE,	IT, LU, MO	C, NL, PT, SE, BF.	BJ. CF. CG. CI
CM, GA, GN,	GW, ML,	MR, NE, SI	N, TD, TG	
WO 2000077027			WO 2000-GB2291	20000613
WO 2000077027		20010525		
W: AE, AG, AL,	AM, AT,	AU, AZ, BA	A, BB, BG, BR, BY,	CA, CH, CN, CR,
CO, CZ, DE,	DK, DM,	DZ, EE, ES	S, FI, GB, GD, GE,	GH, GM, HR, HII.
ID, IL, IN,	IS, JP,	KE, KG, KI	P, KR, KZ, LC, LK,	LR. LS. LT. LU
LV, MA, MD,	MG, MK,	MN, MW, MX	K, MZ, NO, NZ, PL.	PT, RO, RU, SD
SE, SG, SI,	SK, SL,	TJ, TM, TF	R, TT, TZ, UA, UG,	US, UZ, VN, YU,
ZA, ZW, AM,	AZ, BY,	KG, KZ, MI	O, RU, TJ, TM	
RW: GH, GM, KE,	LS, MW,	MZ, SD, SI	L, SZ, TZ, UG, ZW,	AT, BE, CH, CY,
DE, DK, ES,	FI, FR,	GB, GR, IE	E, IT, LU, MC, NL,	PT, SE, BF, BJ,
CF, CG, CI,	CM, GA,		, MR, NE, SN, TD,	TG
US 2003216403 US 2004143018			US 2003-296245	20030514
PRIORITY APPLN. INFO.:	A1 2	0040722	US 2004-752568	20040108
TRIORITI AIPEN. INTO.:			GB 1997-18392	A 19970829
			GB 1998-3173	A 19980213
			WO 1998-GB2605	W 19980828
			GB 1999-13823	A 19990614
•			US 1999-142064P	P 19990702
			US 2000-485678 WO 2000-GB2291	A2 20000225
			GB 1999-18741	A2 20000613
			GB 1999-18741 GB 1999-29552	A 19990809
			GB 1999-29553	A 19991214 A 19991214
			1000 2000	A 13331414

WO 2001-GB2566 US 2001-988082

W 20010612 A1 20011119

OTHER SOURCE(S):

MARPAT 136:355487

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$$X-X-Y-L-Lp(D)_{n}$$
R¹R²N

Title compds. I [R1, R2 = H, OH, alkoxy, alkyl, aminoalkyl, hydroxyalkyl, AΒ alkoxyalkyl, alkoxycarbonyl, acyloxymethoxycarbonyl or alkylamino optionally substituted by hydroxy, alkylamino, alkoxy, oxo, aryl, cycloalkyl; R3 = R1, R2, amino, halo, cyano, nitro, thiol, alkylthio, alkylsulfonyl, alkylsulfenyl, alkylsulfonamido, alkylaminosulfonyl, haloalkoxy, haloalkyl; X = C, N, O, S, CO, CR1, C(R1)2, NR1 with at least one X being C, CO, CR1 or C(R1)2, with the proviso that if the benzamidine group is unsubstituted and the X-X group is -CH2C(R1)2-, then R1 = H or attached to the alkylene carbon atom by a heteroatom; L = organic linker containing 1-5 backbone atoms selected from C, N, O and S, or a branched alkyl or cyclic group; Y = N, CR1; YL = cyclic group; Cy = (un)saturated, (poly)cyclic, (hetero)cyclic group optionally substituted by groups R3 or Ph optionally substituted by R3; Lp = lipophilic alkyl, heterocyclic, alkenyl, alkaryl, (poly) cycloalkyl, cycloalkenyl, aryl, aralkyl, haloalkyl, or a combination of two or more such groups optionally substituted by oxa, oxo, aza, thio, halo, amino, hydroxy or by R3; D = Hbond donor group; n = 0-2], or corresponding compds. in which the (un) substituted amidino group R1R2NC(:NR1) is replaced with an (un) substituted aminomethyl group, or their physiol. tolerable salts were prepared as serine protease inhibitors useful as antithrombotic agents. 3-Amidino- and 3-(aminomethyl)benzoyl-D-phenylglycine 4aminomethylcyclohexylmethylamide are among 190 compds. synthesized.

IT 221233-25-6P 221234-79-3P 221277-36-7P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of meta-benzamidine derivs. of amino acids or dipeptides as serine protease inhibitors)

RN 221233-25-6 HCAPLUS

CN

D-Proline, (2R)-N-[3-(aminoiminomethyl)benzoyl]-2-phenylglycyl-3-(2-naphthalenyl)-D-alanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 221234-79-3 HCAPLUS

CN D-Prolinamide, (2R)-N-[3-(aminoiminomethyl)benzoyl]-2-phenylglycyl-D-phenylalanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 221277-36-7 HCAPLUS

CN D-Proline, (2R)-N-[3-(aminoiminomethyl)benzoyl]-2-(naphthalenyl)glycyl-3-(2-naphthalenyl)-D-alanyl-(9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

L29 ANSWER 2 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1999:184269 HCAPLUS

DOCUMENT NUMBER:

INVENTOR (S):

130:237884

TITLE:

Preparation of meta-benzamidine derivatives of amino

acids or dipeptides as serine protease inhibitors Liebeschuetz, John Walter; Wylie, William Alexander; Waszkowycz, Bohdan; Murray, Christopher William; Rimmer, Andrew David; Welsh, Pauline Mary; Jones,

Stuart Donald; Roscoe, Jonathan Michael Ernest; Young,

Stephen Clinton; Morgan, Phillip John

PATENT ASSIGNEE(S):

SOURCE:

Proteus Molecular Design Ltd., UK

PCT Int. Appl., 110 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

13

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLICATION NO.	DATE
W: AL, AM, AT, DK, EE, ES, KP, KR, KZ, NO, NZ, PL,	AU, AZ, BA, BB, FI, GB, GE, GH, LC, LK, LR, LS, PT, RO, RU, SD,	WO 1998-GB2605 BG, BR, BY, CA, CH, CN, GM, HR, HU, ID, IL, IS, LT, LU, LV, MD, MG, MK, SE, SG, SI, SK, SL, TJ, AM, AZ, BY, KG, KZ, MD,	CU, CZ, DE, JP, KE, KG, MN, MW, MX, TM, TR, TT.
RW: GH, GM, KE, FI, FR, GB,	LS, MW, SD, SZ,	UG, ZW, AT, BE, CH, CY, MC, NL, PT, SE, BF, BJ.	DE. DK. ES.
AU 9888757	A1 19990322 A1 20000621	AU 1998-88757 EP 1998-940430	19980828 19980828
	A1 20020509 B2 20040525	US 2001-988082	20011119
US 2003216403 US 2004143018 PRIORITY APPLN. INFO.:	A1 20031120 A1 20040722	US 2003-296245 US 2004-752568 GB 1997-18392	20030514 20040108 A 19970829

GB	1998-3173	A	19980213
WO	1998-GB2605	W	19980828
GB	1999-13823	A	19990614
US	1999-142064P	P	19990702
US	2000-485678	A2	20000225
WO	2000-GB2291	A2	20000613
WO	2001-GB2566	W	20010612
US	2001-988082	A1	20011119

OTHER SOURCE(S):

MARPAT 130:237884

$$X-X-Y-L-Lp(D)_n$$
 $R^{1}R^{2}N$
 NR^{1}

$$CO-N$$
 $CO-OCH_2CH_2$
 $N-OCH_3$
 $CO-OCH_2CH_3$
 $CO-OCH_3$
 $CO-OCH$

Title compds. I [R1, R2 = H, OH, alkoxy, alkyl, aminoalkyl, hydroxyalkyl, AΒ alkoxyalkyl, alkoxycarbonyl, acyloxymethoxycarbonyl or alkylamino optionally substituted by hydroxy, alkylamino, alkoxy, oxo, aryl, cycloalkyl; R3 = R1, R2, amino, halo, cyano, nitro, thiol, alkylthio, alkylsulfonyl, alkylsulfenyl, alkylsulfonamido, alkylaminosulfonyl, haloalkoxy, haloalkyl; X = C, N, O, S, CO, CR1, C(R1)2, NR1 with at least one X being C, CO, CR1 or C(R1)2, with the proviso that if the benzamidine group is unsubstituted and the X-X group is -CH2C(R1)2-, then R1 = H or attached to the alkylene carbon atom by a heteroatom; L = organic linker containing 1-5 backbone atoms selected from C, N, O and S, or a branched alkyl or cyclic group; Y = N, CR1; YL = cyclic group; Cy = (un)saturated, (poly) cyclic, (hetero) cyclic group optionally substituted by groups R3 or Ph optionally substituted by R3; Lp = lipophilic alkyl, heterocyclic, alkenyl, alkaryl, (poly)cycloalkyl, cycloalkenyl, aryl, aralkyl, haloalkyl, or a combination of two or more such groups optionally substituted by oxa, oxo, aza, thio, halo, amino, hydroxy or by R3; D = Hbond donor group; n = 0-2] and their physiol. tolerable salts were prepared as serine protease inhibitors useful as antithrombotic agents. Synthesis methodol. for preparing some I was provided, and common starting materials were Fmoc- or Boc-(D)-phenylglycine and m-amidinobenzoic acid. Descriptions of enzyme assays were given, but no enzyme inhibition data was provided for I. To measure the antithrombotic activity, a partial thromboplastin time test assay was done, and for example, m-amidinobenzoyl-D-phenylglycine ester II (preparation not given, but 1H NMR characterization data provided), at 1.9 μM concentration, doubled the clotting

Τ

II

time.

IT 221233-25-6P 221234-79-3P 221277-36-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of meta-benzamidine derivs. of amino acids or dipeptides as serine protease inhibitors)

RN 221233-25-6 HCAPLUS

CN D-Proline, (2R)-N-[3-(aminoiminomethyl)benzoyl]-2-phenylglycyl-3-(2-naphthalenyl)-D-alanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 221234-79-3 HCAPLUS

CN D-Prolinamide, (2R)-N-[3-(aminoiminomethyl)benzoyl]-2-phenylglycyl-D-phenylalanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 221277-36-7 HCAPLUS

CN D-Proline, (2R)-N-[3-(aminoiminomethyl)benzoyl]-2-(naphthalenyl)glycyl-3-(2-naphthalenyl)-D-alanyl-(9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

REFERENCE COUNT:

12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 3 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1999:184268 HCAPLUS

DOCUMENT NUMBER:

130:223587

TITLE:

1-amino-7-isoquinoline derivatives as serine protease

inhibitors

INVENTOR(S):

Liebeschuetz, John Walter; Wylie, William Alexander; Waszkowycz, Bohdan; Murray, Christopher William; Rimmer, Andrew David; Welsh, Pauline Mary; Jones, Stuart Donald; Roscoe, Jonathan Michael Ernest; Young, Stephen Clinton; Morgan, Phillip John; Camp, Nicholas

Paul; Crew, Andrew Philip Austin Proteus Molecular Design Ltd., UK

PATENT ASSIGNEE(S):

PCT Int. Appl., 89 pp.

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

13

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA	TENT	NO.			KIN	D	DATE			APPL	ICAT	ION	NO.		D.	ATE	
WO	9911 W:	AL, DK, KP, NO,	AM, EE, KR, NZ,	AT, ES, KZ, PL,	AU, FI, LC, PT,	AZ, GB, LK, RO,	BA, GE, LR, RU,	BB, GH, LS, SD,	BG, GM, LT, SE,	BR, HR, LU, SG,	BY, HU, LV, SI,	CA, ID, MD, SK,	CH, IL, MG, SL.	CN, IS, MK,	CU, JP, MN, TM	CZ, KE, MW,	DE, KG, MX,
	RW:	GH, FI,	GM, FR,	KE, GB,	LS, GR,	MW, IE,	YU, SD, IT, MR,	SZ, LU,	UG, MC,	ZW, NL,	AT, PT,	BE,	CH.	CY.	DE	DK	ES
ΕP	9888 1012 1012 R:	753 166 166			A1 A1 B1		1999 2000 2003 IT,	0322 0628 1029		AU 19	998-8	8875: 94042	3 25		19 19	99808 99808	

Garcia 10_635696

US 2003216403 A1 20031120 US 2003 PRIORITY APPLN. INFO.: GB 1997 GB 1998 WO 1998 US 2000	98-GB2600 W	20010529 20010529 20030514 19970829 19980213 19980828 1 20000225 20010612
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GΙ

Aminoisoquinoline amino acid derivs. I [R1 = H, halo, cyano, nitro, ΆB hydroxy, amino, alkoxy, alkyl, aminoalkyl, hydroxyalkyl, thiol, alkylthio, aminosulfonyl, alkoxyalkyl, alkoxycarbonyl, acyloxymethoxycarbonyl or alkylamino (optionally substituted); R2 = H, halo, Me, amino, hydroxy, or oxo; and R is X-X-Y(R7)-L-Lp(D)n, where each X independently is a C, N, O or S atom or a CO, CR1, CR12 or NR1 group; Y is a nitrogen atom or a CR1 group or Y and L taken together form a cyclic group; R7 is a lipophilic group selected from alkyl, alkenyl, mono- or bi-cycloalkyl, aryl, heteroaryl, mono- or bicycloalkylalkyl, mono- or bicycloalkylalkenyl, aralkyl, heteroaryl-alkyl, arylalkenyl, heteroarylalkenyl, all optionally substituted by a group R1; L is an organic linker group containing 1 to 5 backbone atoms selected from C, N, O and S, or a branched alkyl or cyclic group; Lp is a lipophilic organic group selected from alkyl, heterocyclic, alkenyl, alkaryl, cycloalkyl, polycycloalkyl, cycloalkenyl, aryl, aralkyl or haloalkyl group or a combination of two or more such groups optionally substituted by one or more of oxa, thia, aza or R1 groups; D is a hydrogen bond donor group; and n is 0, 1, or 2] or their 3,4-dihydro derivs. were prepared as serine protease inhibitors. Thus, 1-aminoisoquinolin-7-oyl-Dphenylglycine-4-methoxybenzylamide was prepared by amidation of Boc-D-phenylglycine with 4-methylbenzylamine, followed by deprotection and coupling with 1-aminoisoquinoline-7-carboxylic acid trifluoroacetate.

IΤ 221049-80-5P 221050-78-8P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of aminoisoquinoline peptidyl derivs. as serine protease inhibitors)

RN221049-80-5 HCAPLUS

D-Proline, (2R)-N-[(1-amino-7-isoquinolinyl)carbonyl]-2-phenylglycyl-3-(2-maino-7-isoquinolinyl)carbonyl] CN naphthalenyl)-D-alanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

221050-78-8 HCAPLUS RN

L-Proline, (2R)-N-[(1-amino-7-isoquinolinyl)carbonyl]-2-phenylglycyl-3-(2-CNnaphthalenyl)-D-alanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT:

12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 4 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1991:581373 HCAPLUS

DOCUMENT NUMBER:

115:181373

TITLE:

Bispecific monoclonal antibody to cancer cell and to enzyme with prodrug-activating characteristics, and preparation of peptidated anticancer prodrugs

INVENTOR(S):

Iwasa, Susumu; Okamoto, Kayoko

PATENT ASSIGNEE(S):

Takeda Chemical Industries, Ltd., Japan

SOURCE:

PCT Int. Appl., 52 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9109134	A1	19910627	WO 1990-JP1631	19901214

W: CA, JP, US RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE EP 505566 19920930 **A**1 EP 1991-900329 19901214 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE JP 05506563 T219930930 JP 1991-501001 19901214 PRIORITY APPLN. INFO.: JP 1989-326545 19891215 JP 1990-97323 19900411 JP 1990-301608 19901106 WO 1990-JP1631 19901214 AΒ

AB A hybrid bispecific monoclonal antibody (MAb) is provided having specificities against a human cancer cell and a prodrug-activating enzyme. Also provided is a polydoma producing the MAb, an antihuman cancer protein complex (the MAb-prodrug-activating enzyme complex), and methods for using the MAb in combination with an anticancer prodrug for cancer therapy. Preparation of a variety of peptidated anticancer agent prodrugs is described, as is their activity before and after proteolytic cleavage. A hybridoma producing an antihuman transferrin receptor MAb was fused with a hybridoma producing an antiurokinase MAb, and the bispecific MAb produced was purified. A complex of the bispecific MAb and urokinase was incubated with human epidermoid carcinoma cell line A431; this was followed by incubation with the prepared prodrug Boc-Gly-Gly-Arg-Val-adriamycin (Boc = t-butyloxycarbonyl). The prodrug was activated by the bispecific antibody-urokinase complex and showed strong cytotoxicity against the A431 target cells.

IT 73167-84-7

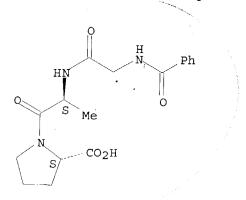
RL: RCT (Reactant); RACT (Reactant or reagent)

(reaction of, in peptidated antitumor prodrug preparation)

RN 73167-84-7 HCAPLUS

CN L-Proline, 1-[N-(N-benzoylglycyl)-L-alanyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L29 ANSWER 5 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1990:74402 HCAPLUS

DOCUMENT NUMBER: 112:74402

TITLE: Hydrolysis of a synthetic angiotensin-converting

enzyme substrate in dog lungs

AUTHOR(S): Linehan, John H.; Bronikowski, Thomas A.; Rickaby,

David A.; Dawson, Christopher A.

CORPORATE SOURCE: Dep. Biomed. Eng., Marquette Univ., Milwaukee, WI,

53233, USA

SOURCE: American Journal of Physiology (1989), 257(6, Pt. 2),

H2006-H2016

CODEN: AJPHAP; ISSN: 0002-9513

DOCUMENT TYPE: Journal LANGUAGE: English

AB The saturable kinetics of the hydrolysis of a synthetic substrate,

benzoyl-Phe-Ala-Pro (BPAP), for angiotensin-converting enzyme (ACE), by the pulmonary endothelium of the dog were evaluated with a multiple indicator dilution method. In the expts., isolated dog lung lobes were perfused with a salt solution containing 5% bovine serum albumin. Boluses containing [3H]BPAP, and various amts. of unlabeled BPAP were injected into the lobar artery, and timed samples of venous effluent were collected. The samples were analyzed to determine the fractional hydrolysis of the injected BPAP. BPAP hydrolysis on passage through the lungs exhibited the saturable behavior and the relative insensitivity to changing flow rate previously described. Since it was described previously that BPAP behaves as if it exists in 2 forms, 1 of which is virtually unhydrolyzable on a single pass through the lungs, a model was formulated to include the influence of the unhydrolyzable form, as well as the saturable hydrolysis of the hydrolyzable form, on the fractional hydrolysis of the injected BPAP. This model provides a new method for estimating the kinetic parameters of BPAP hydrolysis by pulmonary endothelial ACE, and it explains the observation that the fractional BPAP hydrolysis does not vary with flow rate and transit time to the extent predicted by previous models. 69677-91-4

ΙT

RL: RCT (Reactant); RACT (Reactant or reagent)

(hydrolysis of, by angiotensin-converting enzyme of lung endothelium, kinetics of, model for)

69677-91-4 HCAPLUS RN

L-Proline, N-benzoyl-L-phenylalanyl-L-alanyl- (9CI) (CA INDEX NAME) CN

Absolute stereochemistry.

L29 ANSWER 6 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1989:625889 HCAPLUS

DOCUMENT NUMBER: 111:225889

TITLE:

Metabolic and pharmacokinetic activity of the isolated

sheep bronchial circulation

AUTHOR(S): Grantham, C. J.; Jackowski, J. T.; Wanner, A.; Ryan,

CORPORATE SOURCE: Mt. Sinai Med. Cent., Univ. Miami, Miami, FL, 33101,

USA

SOURCE: Journal of Applied Physiology (1989), 67(3), 1041-7

CODEN: JAPHEV; ISSN: 8750-7587

DOCUMENT TYPE: Journal LANGUAGE: English

Bronchial vascular metabolic and pharmacokinetic activity toward AB benzoyl-Phe-Ala-Pro (BPAP), and ADP, adenosine, and PGE2 was studied by developing an isolated sheep bronchial circulation preparation Mean transit time (.hivin.t), uptake, and metabolism were measured by injecting [3H]-labeled substrates with [14C] sucrose into the bronchial artery of sheep lungs stripped clean of parenchymal tissue. After [3H]BPAP the .hivin.t for 3H was the same as for 14C. Thirty-six percent of the

injected BPAP was converted to metabolite ([3H]benzoyl-Phe) in a single pass. An inhibitor of angiotensin-converting enzyme, SQ 20,881, depressed BPAP metabolism by 50%, whereas perfusion of the bronchial circulation with glutaraldehyde reduced metabolism to a basal level. After [3H]ADP the hivin.t for 3H was again the same as for 14C. 3H recovery after 40 pmol [3H]ADP was less (58%) than after 400 nmol [3H]ADP (79%). Twenty-two percent of the injected radioactivity emerged in the effluent as metabolites of ADP for either dose. Adenosine and PGE2 uptake was negligible, and most of the recovered radioactivity in each case was unchanged substrate. Evidently, the bronchial circulation is pharmacokinetically and metabolically active with respect to vasoactive mediators like angiotensin I, bradykinin, and adenine nucleotides, and the enzymes responsible for this metabolic activity line the vascular lumen.

IT 69677-91-4

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(metabolism and pharmacokinetics of, in bronchial circulation)

RN69677-91-4 HCAPLUS

L-Proline, N-benzoyl-L-phenylalanyl-L-alanyl- (9CI) (CA INDEX NAME) CN

Absolute stereochemistry.

L29 ANSWER 7 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1989:571581 HCAPLUS

DOCUMENT NUMBER: 111:171581

TITLE: Effect of transit time on metabolism of a pulmonary

endothelial enzyme substrate

AUTHOR (S): Dawson, Christopher A.; Bongard, Robert D.; Rickaby,

David A.; Linehan, John H.; Roerig, David L.

CORPORATE SOURCE: Dep. Physiol., Med. Coll. Wisconsin, Milwaukee, WI,

53226, USA

SOURCE: American Journal of Physiology (1989), 257(3, Pt. 2),

H853-H865

CODEN: AJPHAP; ISSN: 0002-9513

DOCUMENT TYPE: Journal LANGUAGE: English

Fractional hydrolysis (M) of the synthetic angiotensin-converting enzyme (ACE) substrate [3H]benzoyl-Phe-Ala-Pro (BPAP) on passage through the isolated dog lung lobe was relatively independent of flow rate and transit time (t). The most commonly expressed explanation for this kind of observation is that recruitment of ACE-containing surface area occurs when flow is increased. To test this, as well as other hypotheses that might explain the behavior of this substrate, M obtained after the 1st pass of a BPAP-containing bolus through isolated rabbit lungs was compared with that obtained after 2 sequential passes through the lungs. In this way, t could be doubled with no change in flow or vascular pressure. When the 2nd pass occurred within a few seconds of the first, M after both the 1st

and 2nd pass was only slightly larger than that after the 1st pass alone. If the time between passes was increased to a few minutes, M after the 2nd pass was substantially increased. These results are contrary to the recruitment hypothesis and suggest that this substrate may exist in alternative forms that are in slow equilibrium relative to the capillary t. When albumin was present in the perfusate, an albumin-bound fraction appeared to be 1 such alternative form. However, expts. carried out using protein-free perfusate suggest the possibility that conformational variants of the substrate may also exist.

IT 69677-91-4

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(metabolism of, by angiotensin-converting enzyme of pulmonary endothelium, transit time effect on)

RN 69677-91-4 HCAPLUS

CN L-Proline, N-benzoyl-L-phenylalanyl-L-alanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L29 ANSWER 8 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1988:523935 HCAPLUS

DOCUMENT NUMBER: 109:123935

TITLE: Pulmonary angiotensin-converting enzyme activity in

the oxygen-toxic sheep

AUTHOR(S): Howell, Ralph E.; Hansen-Flaschen, John H.; Wheeldon,

Eric B.

CORPORATE SOURCE: Sch. Med., Univ. Pennsylvania, Philadelphia, PA, USA

SOURCE: American Review of Respiratory Disease (1988), 138(1),

160-6

CODEN: ARDSBL; ISSN: 0003-0805

DOCUMENT TYPE: Journal LANGUAGE: English

The activity of pulmonary endothelial angiotensin-converting enzyme (ACE) was studied in 5 unanesthetized adult sheep that breathed 100% O via tracheostomy for 3 days and in 4 other sheep that breathed compressed air. In contrast to the sheep that breathed air, the sheep that breathed O developed substantial arterial hypoxemia and hypercapnia, an increased alveolar-to-arterial O gradient, and a slight respiratory acidosis. Morphol. examination of lungs from sheep that breathed O revealed a multifocal distribution of injury, including interstitial edema, capillary endothelial damage, and alveolar epithelial damage. Indicator-dilution methods were used to assess first-pass pulmonary metabolism of the ACE substrate [3H]benzoyl-Phe-Ala-Pro (BPAP) and the apparent kinetics (KM and Vmax) of ACE activity. Pulmonary metabolism of BPAP exhibited saturability, was reduced by an ACE inhibitor (enalaprit), and did not result from the activity of circulating plasma ACE. There was no difference between the 2 groups of sheep in the percent metabolism of either 0.1 µmol BPAP/kg or 1.0

Garcia 10 635696

 $\mu\text{mol BPAP/kg}$ or in the KM of BPAP metabolism. In both groups, the Vmax and Vmax/KM decreased as a result of redns. in cardiac output and volume of distribution. To further examine pulmonary endothelial ACE activity, the first-pass pulmonary uptake of an ACE inhibitor, [14C] captopril, was assessed in 4 addnl. sheep that breathed O; [14C]captopril uptake remained unchanged from control. Evidently, in sheep, 3 days of 0 breathing causes moderately severe gas exchange abnormalities and capillary damage without impairing pulmonary endothelial ACE activity.

IT 69677-91-4

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(metabolism of, by lung, angiotensin-converting enzyme in relation to)

69677-91-4 HCAPLUS RN

L-Proline, N-benzoyl-L-phenylalanyl-L-alanyl- (9CI) (CA INDEX NAME) CN

Absolute stereochemistry.

L29 ANSWER 9 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: DOCUMENT NUMBER:

1988:16827 HCAPLUS 108:16827

TITLE:

Effect of flow and surface area on

angiotensin-converting enzyme activity in rabbit lungs

AUTHOR (S): Moalli, Richard; Pitt, Bruce R.; Gillis, C. Norman CORPORATE SOURCE:

Sch. Med., Yale Univ., New Haven, CT, 06510, USA Journal of Applied Physiology (1987), 62(5), 2042-50 SOURCE:

CODEN: JAPHEV; ISSN: 8750-7587

DOCUMENT TYPE:

Journal LANGUAGE: English

Pulmonary angiotensin-converting enzyme (ACE) is located on the luminal surface of pulmonary microvasculature. Multiple indicator-dilution techniques were used to measure pulmonary ACE activity in vivo and in isolated lungs. Apparently, ACE activity is depressed in several forms of acute lung injury. Depression of ACE activity may reflect impaired substrate delivery to enzyme sites because of flow-related reduction of perfused surface area. To assess the role of altered microvascular flow and surface area in the measurement of ACE activity, similar techniques were used to estimate the apparent Km and Vmax of pulmonary ACE in isolated, Krebs-perfused rabbit lungs. Km Is an estimate of the affinity of a synthetic ACE substrate, [3H]PhCO-Phe-Ala-Pro-OH, for ACE and should not be influenced by the rate of substrate delivery to luminal enzyme sites. Conversely, Vmax is an index of the number of ACE sites and should be influenced by perfusion changes that alter the number of perfused sites (recruitment or derecruitment). When isolated lungs were subjected to physiol. maneuvers designed to increase or decrease perfused surface area, apparent Vmax increased or decreased resp. Apparent Km was not altered by these maneuvers. Km And Vmax were independent of changes in perfusion rate when surface area was held constant Thus, these parameters should be

Garcia 10 635696

CN L-Proline, N-benzoyl-L-phenylalanyl-L-alanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L29 ANSWER 10 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1

DOCUMENT NUMBER:

1987:618077 HCAPLUS 107:218077

TITLE:

Preparation of LHRH analogs

INVENTOR(S):

Horvath, Aniko; Keri, Gyoergy; Gulyas, Tamas; Teplan,

Istvan; Vigh, Sandor; Bokonyi, Gyorgy

PATENT ASSIGNEE(S):

Innofinance Altalanos Innovacios Penzintezet, Hung.

SOURCE:

Ger. Offen., 15 pp. CODEN: GWXXBX

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	DE 200464				
	DE 3700166	A1	19870709	DE 1987-3700166	19870105
	HU 43090	A2	19870928	HU 1986-16	19860103
	HU 194913	В	19880328		17000103
	NL 8603291	A	19870803	NL 1986-3291	19861223
1	JP 62228099	A2	19871006	JP 1986-309288	
	JP 06031314	B4	19940427	01 1000 300208	19861227
(CH 670830	Α	19890714	CH 1986-5230	10061222
	FI 8605347	Α	19870704	FI 1986-5347	19861229
	FI 85866	В	19920228	11 1000 3347	19861230
	FI 85866	С	19920610		
4	SE 8700016	A	19870704	SE 1987-16	
(GB 2185025	A1	19870708	GB 1987-17	19870102
(GB 2185025	B2	19891228	GB 1967-17	19870102
	FR 2595705	A1	19870918	ED 1007 6	
	FR 2595705	B1	19901012	FR 1987-6	19870102
	JS 4758552	A		***	
	TY APPLN. INFO.:	A	19880719	US 1987-177	19870102
				HU 1986-16	19860103
AD (erp-mrs-ser-Tyr-XI-X	LZ-X3-P	ro-X4 (I: X1	= 0- or m-HNC6H4CO. va	T 011

Glp-His-Ser-Tyr-X1-X2-X3-Pro-X4 (I; X1 = o- or m-HNC6H4CO; X2 = Leu, Trp, Phe; X3 = Arg, Leu, Glu; X4 = Gly-NH2, NHEt; Glp = pyroglutamyl) were prepared as LHRH analogs (no data). Glp-His-Trp-Ser-Tyr-Aa-Leu-Gln-Pro-NHEt (Aa = anthranilic acid residue) was prepared using the solution-phase method. Injections containing 1-10 mg I/mL water, saline, or aqueous buffer may be prepared

Garcia 10_635696

IT 111331-69-2P 111331-70-5P
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of, as **drug**) 111331-69-2 HCAPLUS

CN Luteinizing hormone-releasing factor (swine), 6-(2-aminobenzoic acid)-8-L-glutamine-9-(N-ethyl-L-prolinamide)-10-deglycinamide- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN

PAGE 1-A

PAGE 1-B

RN 111331-70-5 HCAPLUS

CN Luteinizing hormone-releasing factor (swine), 6-(2-aminobenzoic acid)-9-(N-ethyl-L-prolinamide)-10-deglycinamide- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

L29 ANSWER 11 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1986:569766 HCAPLUS

DOCUMENT NUMBER:

AUTHOR(S):

105:169766

TITLE:

Effects of alveolar pressure on lung

angiotensin-converting enzyme function in vivo

CORPORATE SOURCE:

Toivonen, Hannu J.; Catravas, John D. Dep. Pharmacol. Toxicol., Med. Coll. Georgia, Augusta,

GA, 30912, USA

SOURCE:

Journal of Applied Physiology (1986), 61(3), 1041-50

CODEN: JAPHEV; ISSN: 8750-7587

DOCUMENT TYPE: Journal LANGUAGE: English

The effects of airway pressure on endothelial plasmalemmal angiotensin-converting enzyme function were studied in rabbit lungs in vivo. Static inflation of the lungs to a pressure of 0 or 5 Torr did not change percent transpulmonary metabolism and Amax/Km ratio (defined as enzyme mass (E) + catalytic constant (Kcat) Km and thus, under normal conditions, an indirect measure of perfused endothelial luminal surface area) compared with control measurements during conventional mech. ventilation. When the inflation pressure was increased to 10 Torr, percent metabolism of 3H-labeled benzoyl-L-phenylalanyl-L-alanyl-L-proline (BPAP) remained unaltered but Amax/Km decreased to 60% of the control value. This decrease was in close relation to the decrease in pulmonary blood flow. Addition of 5 cmH2O pos. end-expiratory pressure (PEEP) to the mech. ventilation also decreased Amax/Km values and pulmonary blood flow but did not influence percent metabolism [3H]BPAP. These results suggest that the detected alterations in apparent enzyme kinetics were more likely due to hemodynamic changes than to alterations in angiotensin-converting enzyme function. Thus, high static alveolar pressures as well as PEEP probably reduced the fraction of perfused microvessels as reflected in changes in Amax/Km ratios. This information should prove useful in interpreting the response of pulmonary endothelial enzymes to injury.

TТ 69677-91-4

RL: PRP (Properties)

(degradation of, by angiotensin-converting enzyme of lung, kinetics of, alveolar pressure effect on)

RN 69677-91-4 HCAPLUS

L-Proline, N-benzoyl-L-phenylalanyl-L-alanyl- (9CI) (CA INDEX NAME) CN

Absolute stereochemistry.

L29 ANSWER 12 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1984:18361 HCAPLUS

DOCUMENT NUMBER: 100:18361

TITLE: Pulmonary metabolic function in the awake lamb:

effect of development and hypoxia

AUTHOR(S): Pitt, Bruce R.; Lister, George

CORPORATE SOURCE: Sch. Med., Yale Univ., New Haven, CT, 06510, USA

SOURCE: Journal of Applied Physiology: Respiratory,

Environmental and Exercise Physiology (1983), 55(2),

383-91

CODEN: JARPDU; ISSN: 0161-7567

DOCUMENT TYPE: Journal LANGUAGE: English

The effect of postnatal development and acute alveolar hypoxia on pulmonary metabolic function was studied in conscious newborn lambs. ability of the lungs of these animals to metabolize 3H-labeled

Garcia 10_635696

benzoyl-L-phenylalanyl-L-alanyl-L-proline (BPAP) [69677-91-4], a synthetic substrate for angiotensin-converting enzyme (ACE) [9015-82-1], and to remove 14C-labeled 5-hydroxytryptamine (5-HT) [50-67-9] were determined during normoxic and hypoxic conditions at 1 day, 1 wk, and 1 mo of age. Addnl. sheep (8-23-wk-old) were studied acutely as adult controls. BPAP metabolism in the 1-day-old group was 48% and increased slowly to 57% at 1 mo of age and to 79% by 23 wk of age. Pulmonary 5-HT removal was adultlike at birth. Alveolar hypoxia significantly decreased BPAP only in the 1-day-old group and had no significant effect on 5-HT removal over the range of ages studied. These data demonstrate a selective and gradual postnatal development of pulmonary ACE which could be due to alterations in either the affinity or maximum capacity of pulmonary ACE, or increased endothelial cell surface area secondary to rapid growth of small blood vessels in this period. Alveolar hypoxia does not appear to closely regulate either ACE activity or 5-HT removal in conscious lambs >1 day old when trace amts. of substrate are used.

IT 69677-91-4

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(metabolism of, by lung during development, hypoxia effect on)

RN 69677-91-4 HCAPLUS

CN L-Proline, N-benzoyl-L-phenylalanyl-L-alanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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